

CORNELL UNIVERSITY


MEDICAL COLLEGE

ANNOUNCEMENT

OF

SPECIAL COURSES

1904-'05



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CORNELL UNIVERSITY

MEDICAL COLLEGE

SCHEDULE OF COURSES

Course 1—*Histology.* Dr. FERGUSON.

In the department of Histology the following courses are offered by Dr. FERGUSON :

1. *Histological Technics.* Demonstration of methods for fixing, hardening, cutting and preparing fresh tissue for microscopical examination. Fee, \$10.
2. *The Histology of the Respiratory Tract,* including the nose, pharynx and larynx. Twelve hours. Fee, \$25.
3. *The Female Genito-Urinary Organs.* Twelve hours. Fee, \$25.
4. *The Male Genito-Urinary Organs.* Twelve hours. Fee, \$25.
5. *The Eye.* Twelve hours. Fee, \$25.
6. *The Ear.* Twelve hours. Fee, \$25.
7. *The Skin and Appendages.* Twelve hours. Fee, \$25.
8. *The Simple Tissues,* including epithelium, connective tissues, and cartilage. Sixteen hours. Fee, \$30.

Courses 1 and 8 are open to all applicants, but Course 1 can only be given in conjunction with one of the other courses.

Courses 2 to 7, inclusive, are open only to applicants who have had elementary instruction in general histology.

Applicants may combine as many of the courses as their time and ability will permit.

Courses may be pursued in the laboratory at hours convenient to the applicant. Each student will receive personal private instruction. Applicants may arrange to enter the courses between May 1 and September 15.

Course 2—*Bacteriology.* Dr. TORREY.

Dr. TORREY will give a practical course to graduates or those students who have already taken the regular college course. The exercises will be held on Tuesdays, Thursdays and Saturdays at 2 o'clock, between January 1 and May 15. The first exercises will be devoted to general technique, preparation of media and laboratory material, and to morphological and biological considerations; and the last to special subjects, including disinfection, physical and chemical; the pus cocci and the pneumococcus; cholera; diphtheria, with special reference to preparation of anti-toxin; typhoid, methods of differentiation and Widal test; tuberculosis and preparation of tuberculin, tetanus, other anaerobics, and glanders.

The morphology and cultural characteristics of each of the above bacteria will be explained and cultures provided for examinations.

Fees for the whole course, \$25. The exercises will not begin unless there are at least six applications in advance for the entire course.

Course 3—*Gross Pathology.* Dr. SCHULTZE.

Daily for one month, during May and June, at 11 A. M.

The class is to be limited to ten students. Another will be formed if necessary. The course will cover pathological anatomy, autopsy technique, pathological diagnosis, visceral anatomy and relations, with special reference to clinical examinations and diagnosis. Fee, \$25.

Course 4—*Histology and Pathology of the Nervous System.* Dr. SCHLAPP.

Dr. SCHLAPP will conduct a course in the normal and pathological histology of the nervous system. The object of the course will be to acquaint the student with the finer structure of the central and peripheral nervous systems. Special attention will be given to the origin, course and distribution of the recognized fibre tracts. The important lesions which give rise to definite clinical symptoms will be demonstrated in detail. The elements of the embryology and comparative anatomy of the nervous system will be illustrated by a series of gross and microscopical specimens prepared from the lower animals. Opportunity will be offered to any qualified applicant who wishes to become practically familiar with the special methods required in the examination of nervous tissues. Six weeks, three two-hour sessions weekly, Tuesdays, Thursdays and Saturdays, 11 A. M. to 1 P. M., during May and June. Fee, \$25.

Course 5—*General Pathology—Tumors.* Dr. ELSEY.

Dr. ELSEY will conduct a course on the histology and diagnosis of tumors. The work will consist in the study of all the common

types of neoplasms and many of the rarer varieties. Specimens of at least sixty different tumors will be given to the class, and many other specimens, illustrating transitional stages, will be demonstrated. To some extent the gross appearance of these tumors will be illustrated also by museum specimens.

The course is designed to familiarize surgeons and general practitioners with current views regarding the development of these growths and with the methods and limitations of their microscopical diagnosis. Three two-hour sessions weekly, Mondays, Wednesdays and Fridays, 11 A. M. to 1 P. M., for six weeks, during May and June. Fee, \$25.

Course 6—*Histopathology of the Skin.* Dr. JOHNSTON.

A short preliminary review of the morphological changes of degeneration, pigment deposit and inflammation will precede the special work of the course, which, however, necessarily requires some general knowledge of the microscopical appearance of diseased tissues. After briefly considering the normal histology of the skin, the various dermatoses will be taken up in order according to the classification of the American Association:

Inflammation. Eczema, psoriasis, erysipelas, acne, rosacea, lichen planus, small-pox, etc.

Hemorrhage, Hypertrophy, Atrophy. Examples of commoner forms of each.

New Growths.

Granulomata. Syphilis, acquired and congenital, in its phases from chancre to gumma; chancroid, lepra

Tuberculosis verrucosa and lupus, lupus erythematosus.

Tumors. Benign and malignant neoplasms of connective tissue and epithelium; Fibroma, lipoma, myoma, papilloma, keratoma, sarcoma, various types; Epithelioma, squamous celled, rodent ulcer, adenoid forms; Adenoma and endothelioma, angiosarcoma.

Parasitic Diseases. Ringworm, favus, scabies.

Three two-hour sessions weekly, Mondays, Wednesdays and Fridays, 11 A. M. to 1 P. M., for six weeks, during May and June. Fee, \$25. No class with less than four students.

Course 7—*Clinical Pathology.* Dr. HASTINGS, Dr. COE, Dr. WARREN.

Special instruction in Clinical Pathology will be given on days and during hours convenient for students and instructors, and can be arranged by correspondence.

The work will be mainly practical in the laboratory. Students

may devote the major portion of their time to any of the following subjects which they may desire to study in detail :

Blood. Technique of fresh blood preparations ; normal fresh blood ; corpuscle counting ; hemoglobin estimation ; technique of dried blood specimens ; blood parasites ; serum diagnosis ; hemalkalimetry ; spectroscopic examination of blood and blood derivatives ; method of taking " blood culture ; " hemolytic power of serum and fluids.

Urine. Methods of examination ; separation of various proteids in ; separation of reducing bodies (sugar) ; microscopical (casts, crystals, bacteria, tubercle bacilli).

Sputum. Gross examination ; examination for tubercle bacilli and other bacteria.

Gastric Contents. Test meals ; withdrawal and examination of gastric contents.

Feces. Examination for intestinal parasites and ova.

Exudates and Transudates. Pleuritic effusion ; ascitic fluids ; chemical examination ; cell examination and diagnosis in exudates and transudates (cytodiagnosis) ; bacteriological examination of exudates (inoscopy), cerebro-spinal fluid (cytodiagnosis and inoscopy) ; cryoscopy.

Bacteriological. Examination of specimens, for *B. Diphtheria* ; *spirillum vincenti*, *gonococcus*, *pyogenic cocci*.

After the completion of this course arrangement may be made for practical work in the laboratory for a period of two to four weeks.

Course 8—*Practical Anatomy.* Dr. HAYNES.

The course in Practical Anatomy is provided only for graduates in medicine. The purpose is to offer to surgeons or physicians an opportunity to review the anatomy of the regions in which they are particularly interested. Each individual may dissect those parts he prefers, and after his own plan ; or, if desired, the Professor of Practical Anatomy will supervise a course and give demonstrations upon it. Courses may be arranged for at any time except during the months of July and August. Fees—Registration, \$5. Material provided at reasonable rates. Charges for special demonstrations to be arranged with the Professor of Practical Anatomy.

Course 9—*Practical Toxicology.* Dr. RIGGS.

1. Examination of tissue corroded by mineral acids and alkalies ; detection of mineral acids, mineral alkalies and other corrosives.

2. Examination of tissue containing volatile poisons ; detection and estimation of chloroform, chloral, hydrocyanic acid, phenol, nicotine and phosphorus.

3. Examination of tissue containing alkaloids or glucosids ; detection of morphine or strychnine.

4. Examination of tissue containing mineral poisons ; detection and estimation of antimony, arsenic, copper, lead and mercury.

5. Spectroscopic examination of blood containing hydrocyanic acid, carbon monoxid, and hydrogen sulfid.

6. Microscopic and polariscopic examination of crystals.

This course will begin on or after February 1 and close May 31. Hours to be arranged with the instructor. Fees—For didactic instruction, \$2.50 per hour ; for laboratory accommodations and supplies, \$1 per hour. One hour of instruction is generally sufficient to accompany ten hours of laboratory work.

Course 10—*Water and Food Analysis.* Dr. RIGGS.

1. Chemical analysis of potable water, such as required by Boards of Health.

2. Complete analysis of waters with interpretation of results.

3. Analysis of milk and other foods with especial reference to adulterations.

This course to begin on or after February 1 and close May 31. Hours to be arranged with the instructor.

The fee for each student shall be not less than \$10, and may be more if the class is small.

Course 11—*Pharmacology (Pharmaco-dynamics).* Dr. HATCHER.

The course embraces about forty hours and is designed to furnish a scientific basis for the study of therapeutics ; it is aimed to make the course thoroughly practical, and by actual demonstration under the latter subject more easily understood.

The absorption and excretion of drugs, characteristic stains, protoplasmic poisons and the reactions of chemicals with normal body constituents are first considered.

The frog work includes the study of location and types of convulsions and the effects of drugs upon nerves and muscles, including the heart.

Intact mammals are used to study vaso-dilators, vaso-constrictors, mydriatics, miotics, antipyretics and emetics, while the operative work embraces the consideration of agents affecting blood pressure, respiration, diuresis and the heart.

Brief explanatory remarks will precede the work when necessary.

The fee for the course is \$25, but a discount of \$10 each will be made to six or more students or graduates of this university who have not had an opportunity to do the work.

Materia Medica. This will consist of a series of demonstrations of the *Materia Medica* arranged in pharmacologic groups. About one hundred specimens will be considered at a time; these will be left out during the interval between demonstrations (several days); the more important ones, which are so indicated by labels, will be left out during the entire course (about one month). A preliminary discussion of about half an hour will be had of each set. The laboratory will be open every week day, and the student is urged to spend as much time as he can afford in examining the specimens. The fee will be \$5, regardless of the amount of time devoted to this. An unlimited number of students of this college may take this course for the sum of \$50.

In addition to the above work, individual students can arrange to do any of the work pertaining to this laboratory course, including pharmaceutical manipulation, upon satisfactory terms.

The time for the above work can be adapted to suit the convenience of the classes.

Course 12—A. Operative Surgery. Drs. DODGE and DOWNES.

An advanced course in Operative Surgery is offered to graduates in medicine. A special circular and a list of the 163 operations offered will be mailed on application to the Secretary. Any number of operations may be arranged for, from one to the full list, the fee being proportioned to the number desired. This permits the applicant to limit the course and number of operations, and also to make selection of those operations which he most desires. All work is performed by those taking the class; the instructors, who are connected with surgical hospitals, supervise the work done. Seldom more than twenty selected operations are required, and the fee for this number will be \$35. Further particulars may be had from the special circular.

The operative work of the specialties will be transferred to the supervision of the chiefs of these departments, and, as an instance of what can be obtained, an outline of one of these courses is appended:

B. Operative Otolology. A special course of instruction in operative otology upon the cadaver will be given at any time during the year when such instruction is desired. The demonstrations will include all intratympanic procedures for the relief of acute and chronic suppurations of the ear, together with the following operations upon the mastoid region. 1. The Schwartze (classical mastoid) operation. 2. The Stacke operation (tympano mastoid exenteration). 3. Operation for Sinus thrombosis, with resection of jugular. 4. Operation for abscess of temporo-sphenoidal lobe. 5. Operation for abscess of the cerebellum. Course to consist of twelve demonstrations. Fee, \$25.

Course 13—*Clinical Surgery, at Bellevue Hospital.* Dr. BENJAMIN T. TILTON.

A course in Clinical Surgery of one month's duration will be given at any time between May 1 and October 1 at Bellevue Hospital. The course will include making rounds with the Assistant Visiting Surgeon three mornings a week at 10 A. M., instruction in the dressing of wounds and fractures, and the witnessing of all operations performed during the month.

Full advantage will be obtained by the student of the large and varied material of four surgical wards.

Monday, Wednesday and Friday mornings at 10 A. M. Fee, \$35.

Course 14—*Dermatology.* Dr. PISKO or Dr. SCHWARTZ.

A thoroughly practical course in the diagnosis and treatment of diseases of the skin and syphilides will be given in the college dispensary on Tuesdays, Thursdays and Saturdays at 2 P. M. for six weeks during June, July, August and September. Fee, \$15.

Course 15—*Laryngology and Rhinology.* Dr. MACK.

Tuesdays, Thursdays, Saturdays, at 2 P. M.

Dates may be arranged with Dr. Mack at mutual convenience.

Scope of Course.

1. Demonstration of methods of examination.
2. Practice on phantom, etc.
3. Clinical examination of patients.
4. Treatment under instructor's direction of the common forms of throat and nose diseases.
5. Performance of such of the ordinary operations as can be done in an out-patient service.

During June, July, August and September; fee \$25 for eighteen lessons.

Course 16—*Clinical Instruction in the Diseases of the Nervous System.* Dr. HUNT.

Monday, Wednesday and Friday afternoons, at 2 P. M. Dates may be arranged at mutual convenience.

Fee, \$25. Course of eighteen lessons.

Course 17—*Genito-Urinary Diseases.* Dr. EDGERTON.

A. Practical instruction in the treatment of Genito-Urinary Diseases. Three times a week for twelve lessons. Course given in June, July and August. Fee, \$25.

B. Demonstration and practical use of the endoscope, cystoscope

and catheterization of ureters. Two lessons a week for three weeks. Course given in June, July and August. Fee, \$25.

Course 18—Ophthalmology. Dr. REESE.

Clinical instruction in the diagnosis and treatment of patients in the college dispensary, including ophthalmoscopy and refraction.

This course will be given during June, July and September on Tuesdays, Thursdays and Saturdays, from 1.30 to 3 P. M.

Fee, \$15 for twelve lessons.

Further details as regards the above courses can be obtained by application to

*JOHN ROGERS, Jr., M. D., Secretary,
Cornell University Medical College,
1st Ave. and 28th St.,
New York City.*

